

And by the same way of arguing, applied to the third Experiment of this Book, it may be concluded, that the white Colour of all refracted Light at its very first emergence, where it appears as white as before its incidence, is compounded of various Colours.

## EXPER. XIII.

*Fig. 10.* In the foregoing Experiment the several intervals of the Teeth of the Comb do the office of so many Prisms, every interval producing the Phænomenon of one Prism. Whence instead of those intervals using several Prisms, I try'd to compound whiteness by mixing their Colours, and did it by using only three Prisms, as also by using only two as follows. Let two Prisms  $ABC$  and  $abc$ , whose refracting Angles  $B$  and  $b$  are equal, be so placed parallel to one another, that the refracting Angle  $B$  of the one may touch the Angle  $c$  at the base of the other, and their planes  $CB$  and  $cb$ , at which the rays emerge, may lye in directum. Then let the Light trajected through them fall upon the Paper  $MN$ , distant about 8 or 10 Inches from the Prisms. And the Colours generated by the interior limits  $B$  and  $c$  of the two Prisms, will be mingled at  $PT$ , and there compound white. For if either Prism be taken away, the Colours made by the other will appear in that place  $PT$ , and when the Prism is restored to its place again, so that its Colours may there fall upon the Colours of the other, the mixture of them both will restore the whiteness.

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